



**OPERATING PERMIT (Conditional Major) Issued Pursuant to Tennessee Air Quality Act**

**Date Issued:**

**Permit Number:**

457509

**Date Expires:** April 30, 2014

**Issued To:**

Vulcan Construction Materials, L. P.

**Installation Address:**

1192 Lonesome Pine Trail  
Greeneville

**Installation Description:**

Source 01: Rock Crushing and Sizing Operation  
With Wet Suppression Control

**Emission Source Reference No.**

30-0021  
Conditional Major Source  
NSPS (Source 01)

Source 02: One (1) 1,043 hp Diesel Powered Electric Generator  
One (1) 1,341 hp Diesel Powered Electric Generator

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

**GENERAL CONDITION:**

1. The application that was utilized in the preparation of this permit is dated August 31, 2004, and signed by Mr. R. K. Watt, Engineer for the permitted facility. If this person terminates employment or is reassigned different duties such that they are no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(conditions continued on next page)

\_\_\_\_\_  
TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

**POST AT INSTALLATION ADDRESS**

SECTION I: The following conditions shall apply to all sections of this permit unless otherwise noted.
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2. The permittee has elected to opt-out of being issued a major source operating permit pursuant to Division Rule 1200-3-9-.02(11)(a). The permittee would be considered a major source because their “potential to emit” value for nitrogen oxides was greater than 100 tons per year at the time of application. The permittee has agreed to be subject to limitations in order to be below the major source applicability threshold for nitrogen oxides of 100 tons per year.
3. Any non-compliance with any condition(s) of this permit set to restrain the “potential to emit” below the applicability thresholds of 1200-3-9-.02(11) of the Tennessee Air Pollution Control Regulations shall be reported in writing to the Technical Secretary within three (3) working days of such discovery. This notification, at a minimum, shall include the identification of the source, identification of the permit condition(s) violated, and details of the violation.
4. The permittee is placed on notice that **Conditions 20 and 26** of this permit contain limitations that allow the permittee to opt out of the major source operating permit program requirements specified in Division Rule 1200-3-9-.02(11). Failure to abide by these limits will subject the permittee to enforcement action by the State of Tennessee, and may result in the enforcement action by the United States Environmental Protection Agency and loss of Federal recognition as a Conditional Major Source.
5. A report stating the compliance status of this facility with **Conditions 20 and 26**, and including the records required by **Condition 23**, shall be submitted by March 31 of every year, beginning in the year 2005. This report shall cover the preceding calendar year and shall be submitted to the Johnson City Environmental Assistance Center at the following address:  
  
Johnson City Environmental Assistance Center  
Division of Air Pollution Control  
2305 Silverdale Road  
Johnson City, TN 37601
6. Visible emissions from this facility not covered by **Conditions 7, 8, 16, and 17** shall not exhibit greater than 20 percent opacity as determined by EPA Method 9, as published in 40 CFR 60, Appendix A (6 minute average).
7. Visible emissions from roads and parking areas shall not exhibit greater than 10 percent opacity utilizing Tennessee Visible Emission Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982, and as amended on August 24, 1984. TAPCR 1200-3-8-.03.
8. Fugitive emissions from this source shall be controlled as specified in TAPCR 1200-3-8-.01. Specifically, no person shall cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five (5) minutes per hour or twenty (20) minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-3-20. Fugitive emissions from this source shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.
9. Upon the malfunction/failure of any emission control device(s) serving this source, the operation of the process(es) served by the device(s) shall be regulated by Chapter 1200-3-20 of the Tennessee Air Pollution Control Regulations.
10. This permit is valid only at this location.
11. The permittee shall apply for renewal of this permit not less than sixty (60) days prior to the permit expiration date, pursuant to Rule 1200-3-9-.02(3) of the Tennessee Air Pollution Control Regulations.

(conditions continued on next page)

SECTION II: SOURCE SPECIFIC CONDITIONS
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<b>30-0021-01</b> Rock Crushing and Sizing Operation with Wet Suppression Control
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12. This permit covers the equipment items listed in **Table 1**:

**Table 1: List of Equipment Items**

Operation/Equipment	I.D. No.	Size	Status	Capacity (ton/hr)
Feeder	1	54" x 24'	NSPS	800
Crusher	2		NSPS	800
Screen	3	6' x 16'	NSPS	600
Crusher	4		NSPS	400
Crusher	5		NSPS	300
Screen	6	8' x 20'	NSPS	600
Pugmill	7		non-NSPS	1000
Bin	BN-1	40 ton	NSPS	400
Bin	BN-2	40 ton	NSPS	300
Bin	BN-3	40 ton	NSPS	100
Conveyor(s)	C-1	48" wide	NSPS	800
Conveyor(s)	C-2, C-3, C-4	42" wide	NSPS	800
Conveyor(s)	C-5, C-8	36" wide	NSPS	600
Conveyor(s)	C-6	36" wide	NSPS	400
Conveyor(s)	C-7, C-19, C-20	24" wide	NSPS	250
Conveyor(s)	C-9 thru C-13, C-16	24" wide	NSPS	200
Conveyor(s)	C-14	24" wide	NSPS	300
Conveyor(s)	C-15	30" wide	NSPS	300
Conveyor(s)	C-17, C-18	30" wide	NSPS	250
Conveyor(s)	C-21	30" wide	NSPS	100
Conveyor(s)	C-22, C-23	36" wide	NSPS	1000
Conveyor(s)	C-24	24" wide	NSPS	100

The I.D. Numbers referenced above are from flow diagrams submitted with the application dated September 30, 2000.

13. The production rate for this source shall not exceed 800 tons per hour shall not exceed the limits shown in **Table 2** on a daily average basis:

**Table 2: Production Limits (30-0021-01)**

Operation/Equipment	I.D. No.	Size	Status	Production (ton/hr)
Feeder	1	54" x 24'	NSPS	800

14. The maximum annual hours of operation for this source shall not exceed 3,500 hours per calendar year. This limitation is established pursuant to the information contained in the agreement letter dated September 30, 2000 from the permittee. The permittee has requested this limit in order to reduce annual emission fees.

15. Particulate matter emitted from this source shall not exceed 50.4 pounds per hour (lb/hr).

(conditions continued on next page)

16. Visible emissions from the NSPS Bins (ID# BN-1, BN-2, BN-3), NSPS Screens (ID# 3, 6) and NSPS Conveyors (ID# C-1 through C-24) shall not exhibit greater than 10 percent opacity per TAPCR 1200-3-16-.53. The opacity is to be measured by EPA Method 9, as published in 40 CFR 60, Appendix A (six-minute average).
17. Visible emissions from the NSPS Crushers (NSPS Equipment ID# 2,4,5) shall not exhibit greater than 15 percent opacity per TAPCR 1200-3-16-.53. The opacity is to be measured by EPA Method 9, as published in 40 CFR 60, Appendix A (six-minute average).
18. A record of the daily production and operating hours of this source, in a form that readily shows compliance with **Conditions 13 and 14**, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative (See example below. An alternative format that readily provides the same information shall be acceptable.). This record must be retained for a period of not less than five (5) years.

Date	Production (tons)	Hours of Operation	Average Production (ton/hr)	Date	Production (tons)	Hours of Operation	Average Production (ton/hr)	Date	Production (tons)	Hours of Operation	Daily Average Production (ton/hr)
1				12				23			
2				13				24			
3				14				25			
4				15				26			
5				16				27			
6				17				28			
7				18				29			
8				19				30			
9				20				31			
10				21							
11				22							

Total Hours of Operation for the month of \_\_\_\_\_, 200\_\_

Month	Hours of Operation	Month	Hours of Operation	Month	Hours of Operation
January		May		September	
February		June		October	
March		July		November	
April		August		December	
Total Hours of Operation for year 200__					

19. Wet suppression must be applied at all locations in this source as necessary to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions.
20. Routine maintenance, as required to maintain specified emission limits, shall be performed on the air pollution control device. Maintenance records shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than two years.

**30-0021-02** One (1) 1,043 Diesel Powered Electric Generator  
One (1) 1,341 Diesel Powered Electric Generator

21. The maximum hours of operation for each generator shall not exceed 3,000 hours during all periods of twelve consecutive months. This operating limitation is established pursuant to Rule 1200-3-9-.02(11)(a) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated January 22, 2004 from the permittee. The permittee has requested this limit in order to avoid Title V status.

(conditions continued on next page)

22. Only No. 2 fuel oil and diesel fuel shall be used as fuels for this source.
23. The sulfur content of the fuel(s) shall not exceed 0.5 percent by weight. Compliance with this requirement may be assured by providing an analysis of each fuel oil shipment, or by providing a written statement, obtained from each vendor on an annual basis, guaranteeing in advance that all fuel oil sold to the company will contain no more than 0.5 percent sulfur by weight. These records must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. These records must be retained for a period of not less than five (5) years.
24. For each generator, a monthly log of the fuel usage and operating hours, in a form that readily shows compliance with **Conditions 21 and 22** of this permit, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This log must be retained for a period of not less than five (5) years.
25. Sulfur dioxide emitted from this facility shall not exceed the limits shown in **Table 3** on a daily average basis. These emission limitations are established pursuant to Rule 1200-3-14-.01(3) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated January 22, 2004 from the permittee. The permittee has requested these limits in order to reduce emission fees.

**Table 3: Sulfur Dioxide Emission Limits**

<b>Generator</b>	<b>Sulfur Dioxide Emission Limit (lb/hr)</b>
1,043 hp	6.0
1,341 hp	8.0

26. Particulate matter (TSP) emitted from this source shall not exceed 10.9 lb/hr on a daily average basis. This emission limitation is established pursuant to Rule 1200-3-6-.02(2)(a) of the Tennessee Air Pollution Control Regulations.
27. Nitrogen oxides emitted from this facility shall not exceed 57.2 lb/hr on a daily average basis.

(end of conditions)